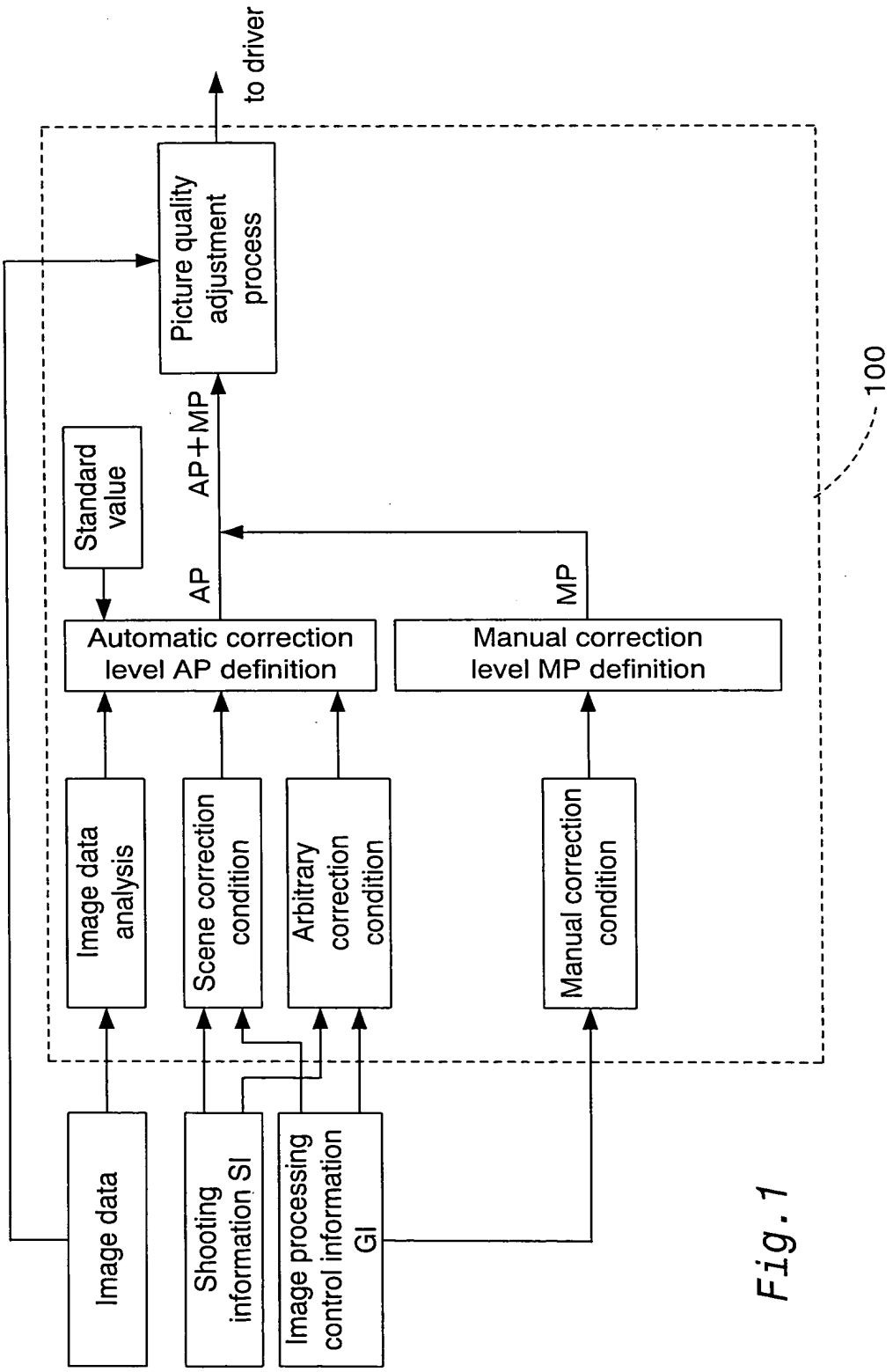
to driver
Picture quality adjustment process
100
Standard value
AP+MP
AP
MP
Automatic correction level AP definition
Manual correction level MP definition
Image data analysis
Scene correction condition
Arbitrary correction condition
Manual correction condition
Image data
Shooting information SI
Image processing control information GI

Fig. 1

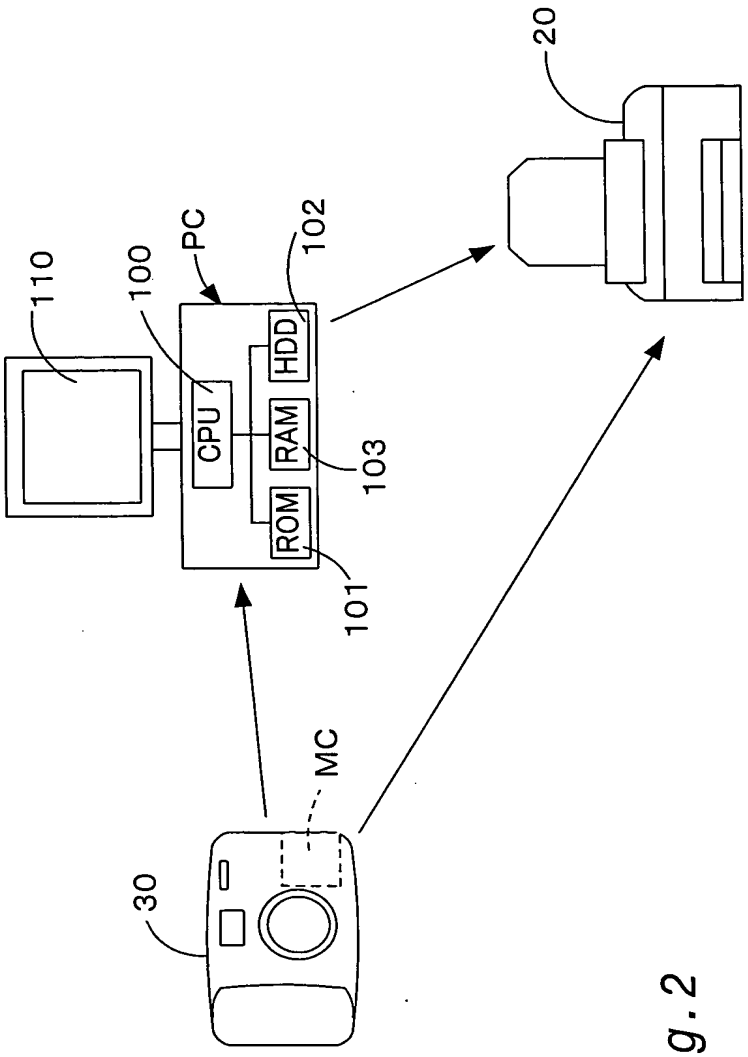

Fig.2

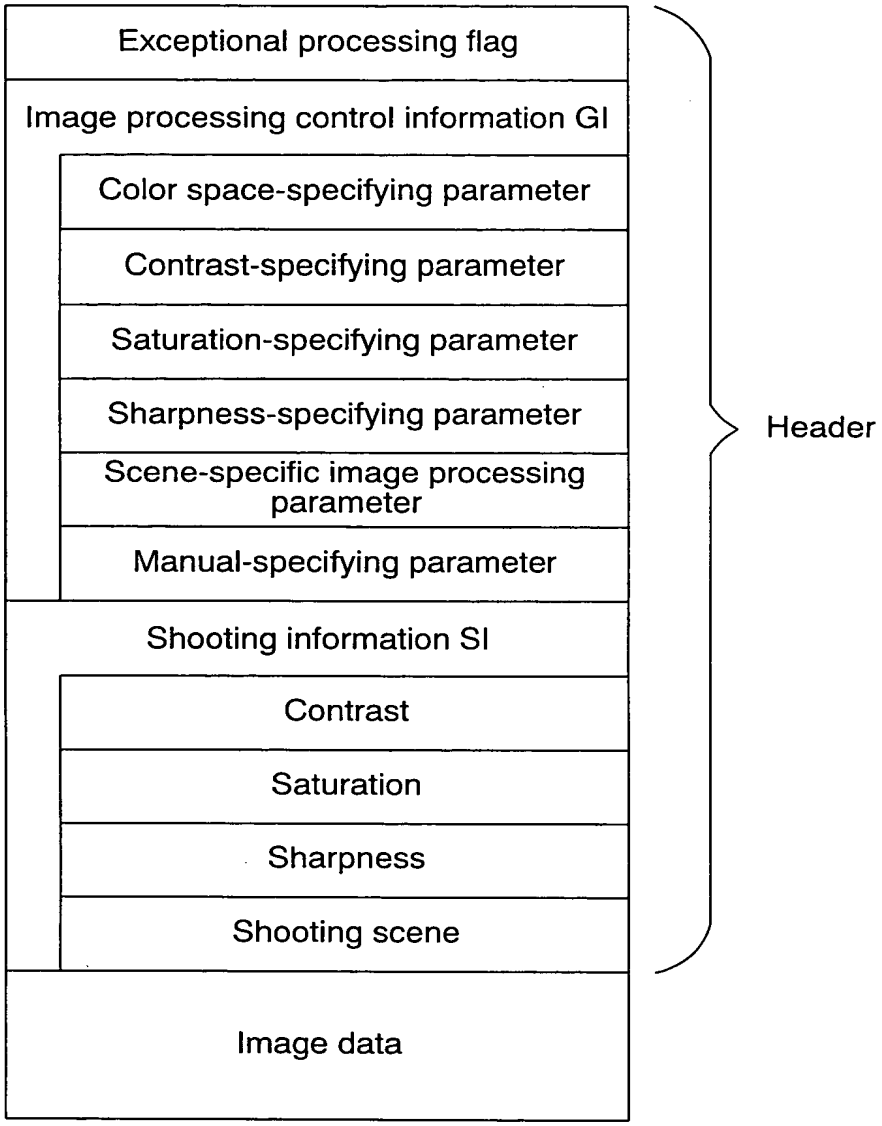
Exceptional processing flag
Image processing control information GI
Color space-specifying parameter
Contrast-specifying parameter
Saturation-specifying parameter
Sharpness-specifying parameter
Scene-specific image processing parameter
Manual-specifying parameter
Shooting information SI
Contrast
Saturation
Sharpness
Shooting scene
Image data
Header

Fig.3

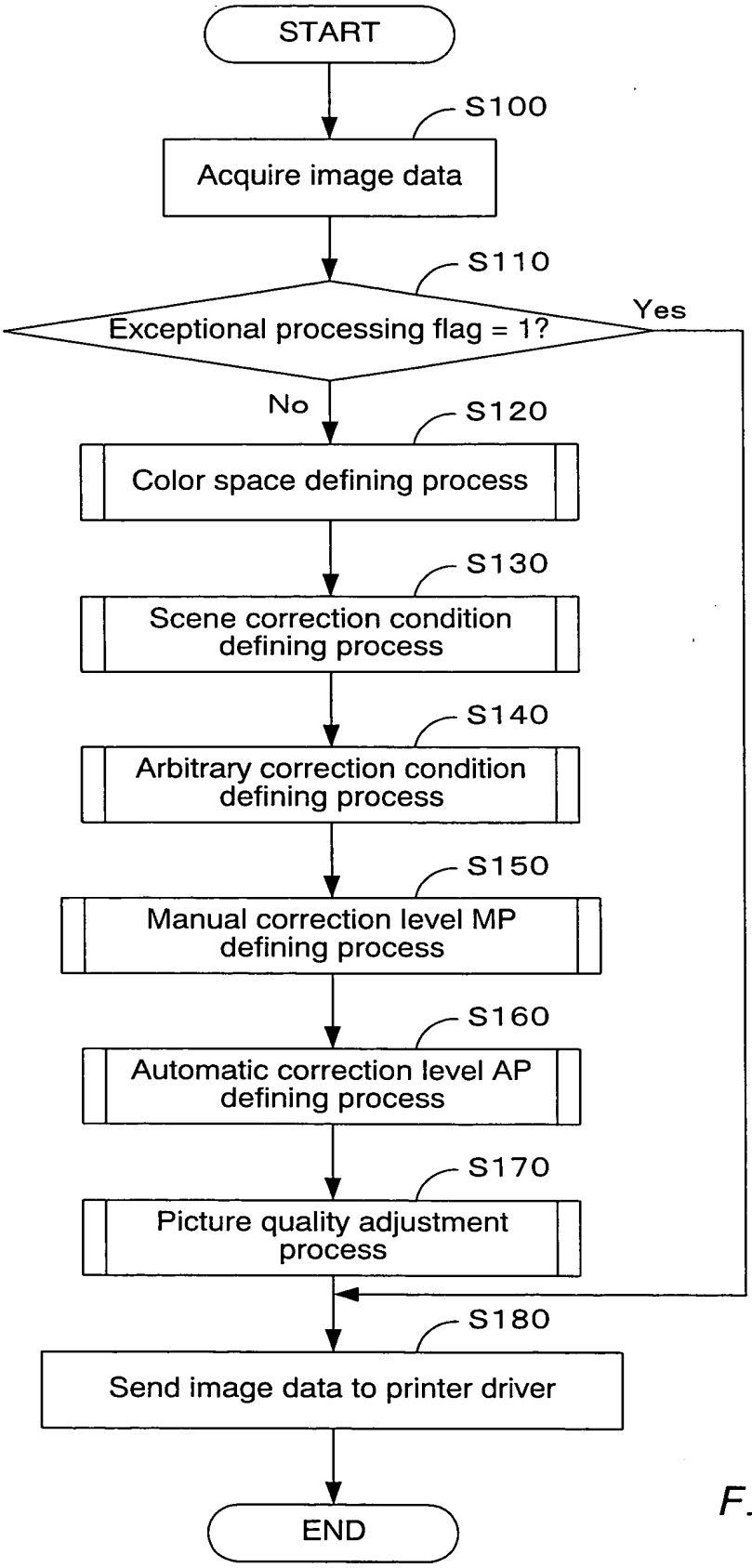
START
S100
Acquire image data
S110
Exceptional processing flag = 1?
Yes
No
S120
Color space defining process
S130
Scene correction condition defining process
S140
Arbitrary correction condition defining process
S150
Manual correction level MP defining process
S160
Automatic correction level AP defining process
S170
Picture quality adjustment process
S180
Send image data to printer driver
END

Fig.4

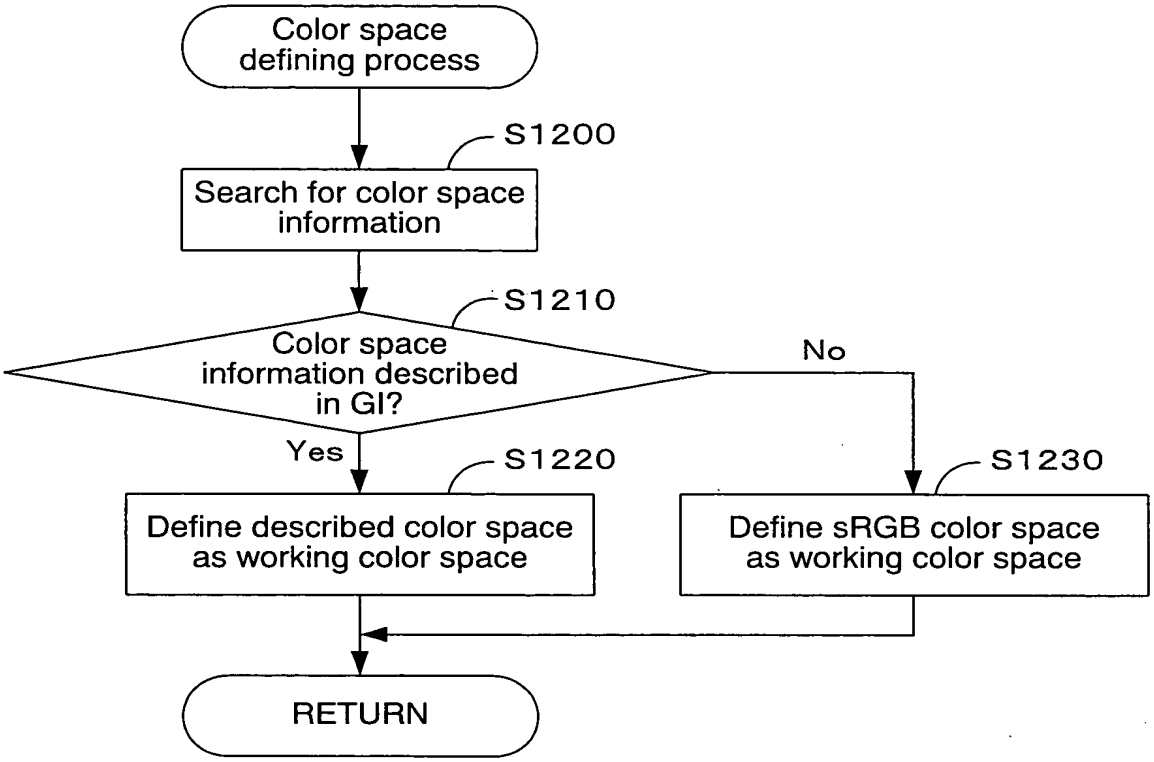
Color space defining process
S1200
Search for color space information
S1210
Color space information described in GI?
No
Yes
S1220
S1230
Define described color space as working color space
Define sRGB color space as working color space
RETURN

Fig.5

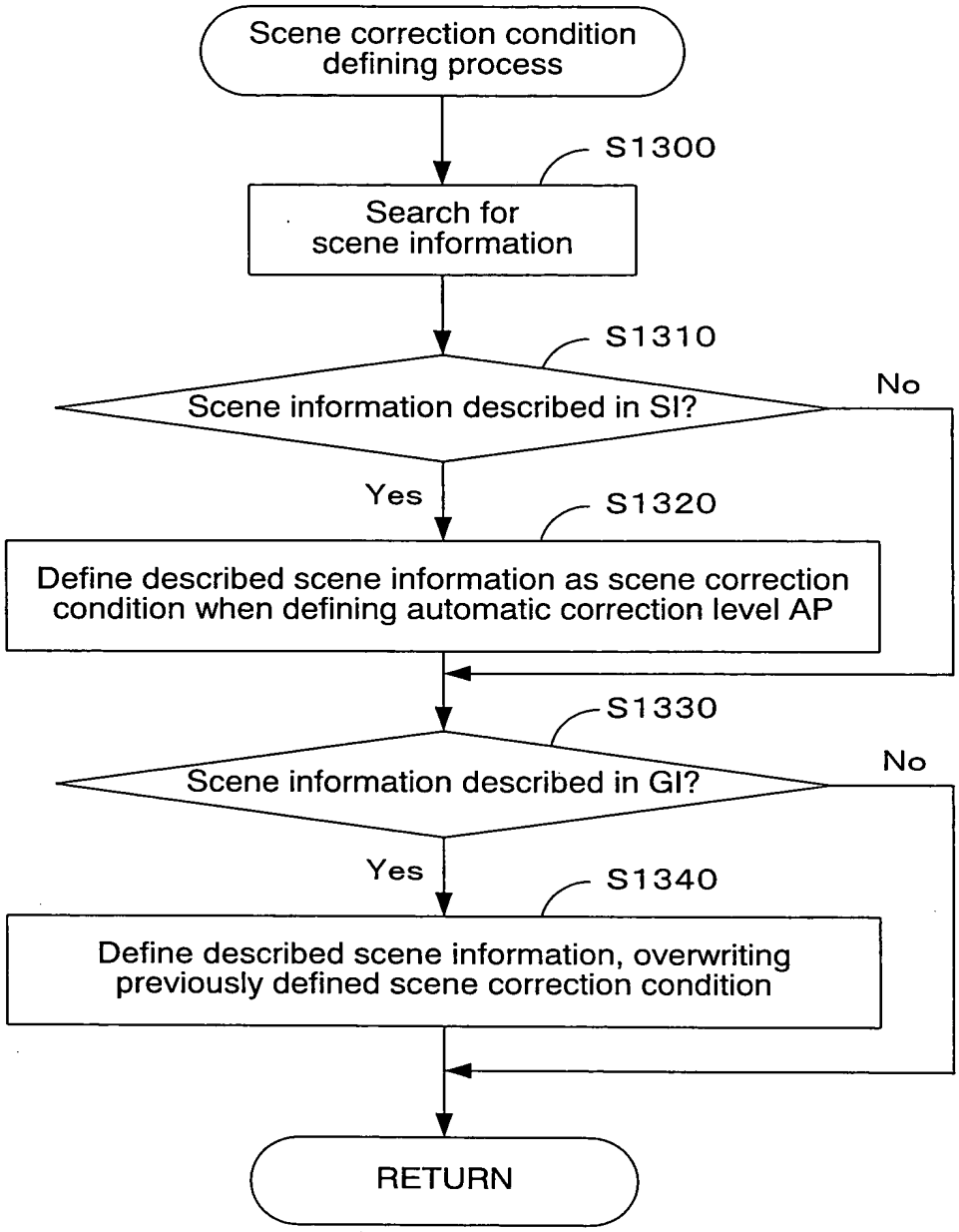
Scene correction condition defining process
S1300
Search for scene information
S1310
Scene information described in SI?
No
Yes
S1320
Define described scene information as scene correction condition when defining automatic correction level AP
S1330
Scene information described in GI?
No
Yes
S1340
Define described scene information, overwriting previously defined scene correction condition
RETURN

Fig.6

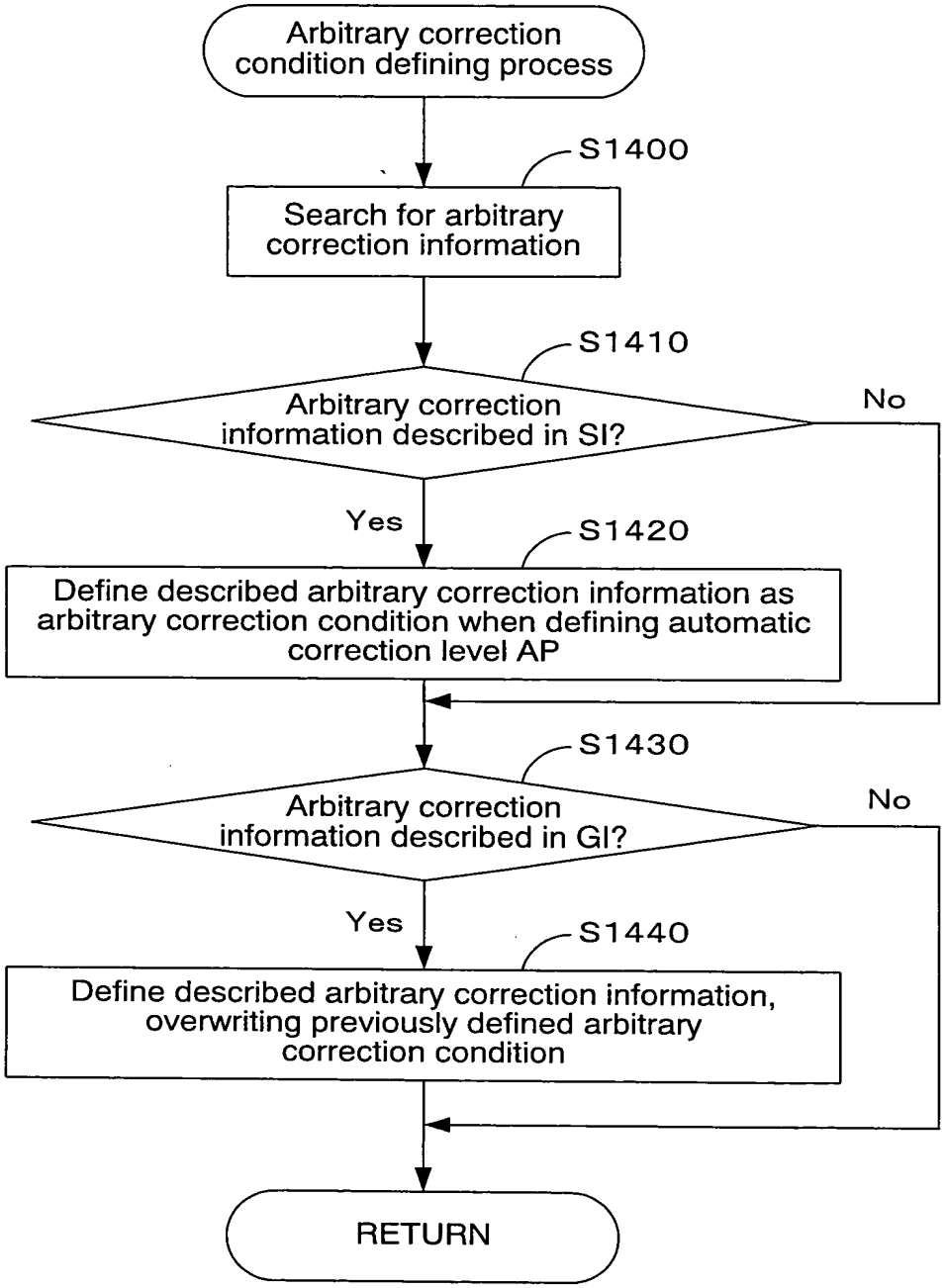
Arbitrary correction condition defining process
S1400
Search for arbitrary correction information
S1410
Arbitrary correction information described in SI?
No
Yes
S1420
Define described arbitrary correction information as arbitrary correction condition when defining automatic correction level AP
S1430
Arbitrary correction information described in GI?
No
Yes
S1440
Define described arbitrary correction information, overwriting previously defined arbitrary correction condition
RETURN

Fig.7

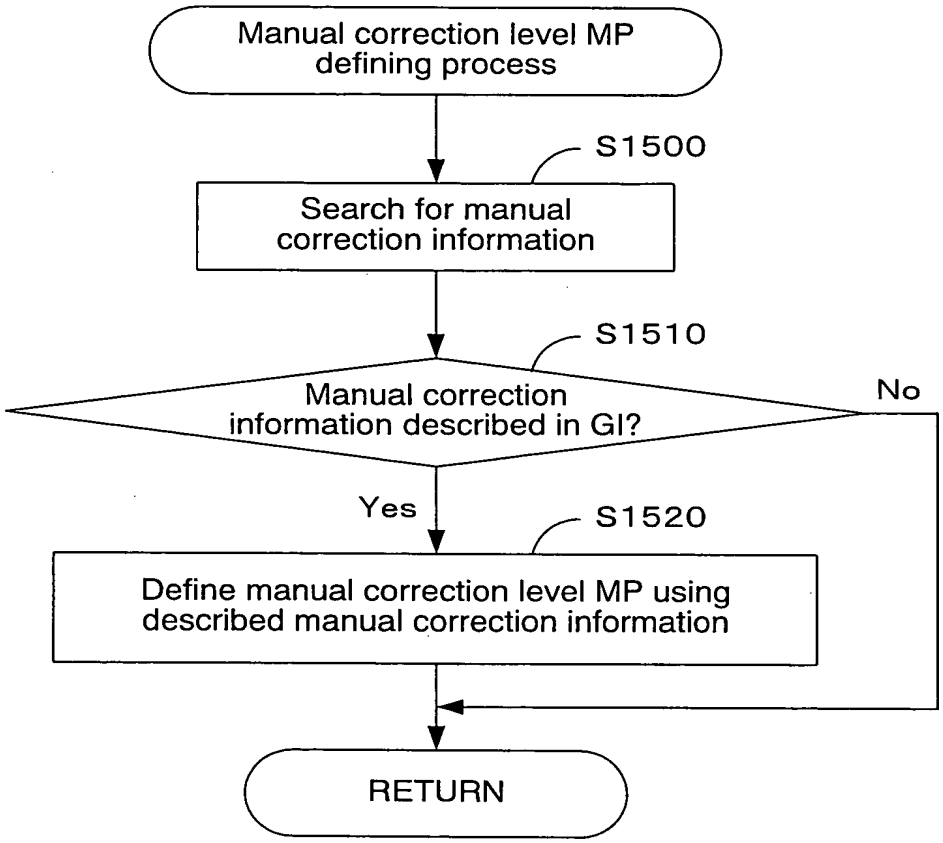
Manual correction level MP defining process
S1500
Search for manual correction information
S1510
Manual correction information described in GI?
No
Yes
S1520
Define manual correction level MP using described manual correction information
RETURN

Fig.8

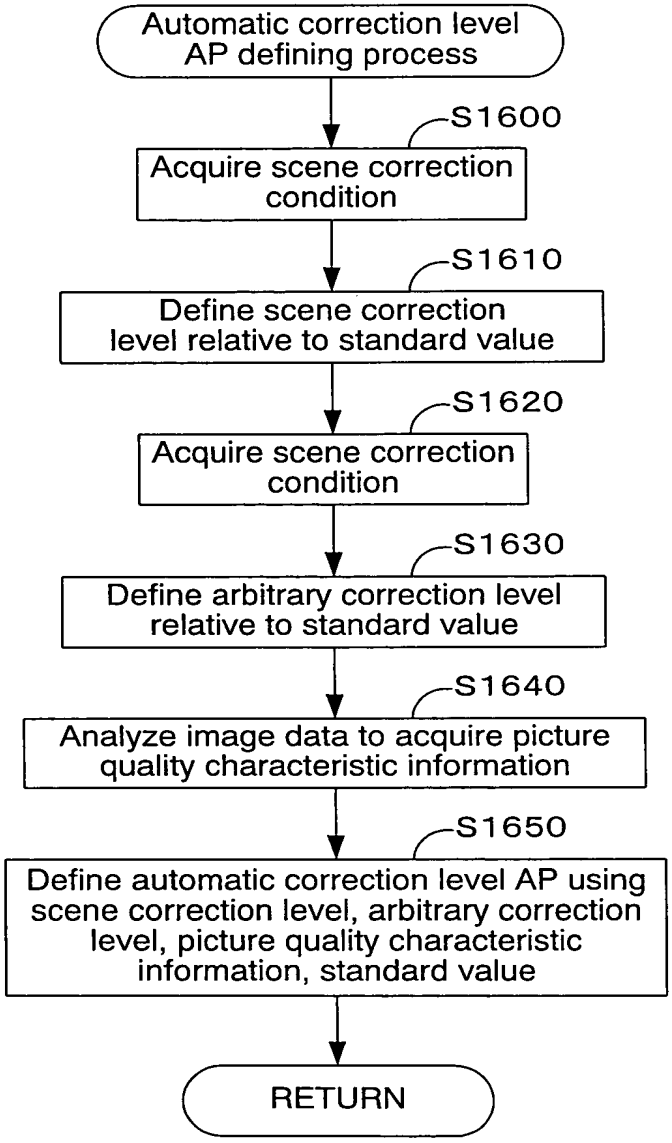
Automatic correction level AP defining process
S1600
Acquire scene correction condition
S1610
Define scene correction level relative to standard value
S1620
Acquire scene correction condition
S1630
Define arbitrary correction level relative to standard value
S1640
Analyze image data to acquire picture quality characteristic information
S1650
Define automatic correction level AP using scene correction level, arbitrary correction level, picture quality characteristic information, standard value
RETURN

Fig.9